

slow
930 Sunday - Tues - Thurs - Sat

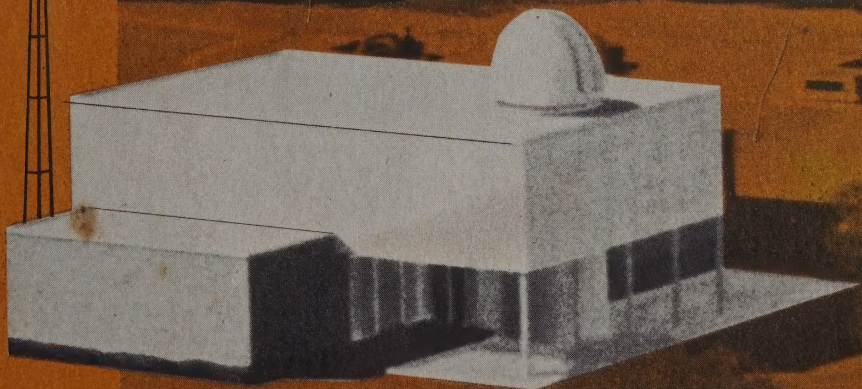
1967 Dayton Hamvention

SATURDAY - APRIL 15, 1967

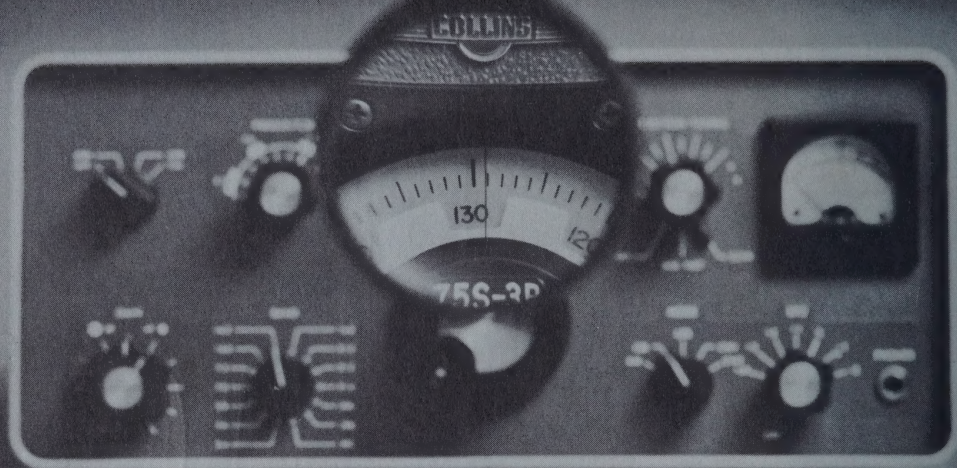
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SOUVENIR PROGRAM



**Future DARA
Station W8BI**



Very Selective

In fact, the Collins 75S-3B Receiver now has the sharpest selectivity available in a ham receiver. Improved cross-modulation characteristics immunize it to nearby transmitters. CW DXers using the 75S-3B easily dig that one signal from a pileup. Mechanical filter options provide just the right degree of selectivity for operating conditions in SSB, CW, or RTTY. Have you tried the 75S-3B lately? See your Collins distributor.



Welcome

1967

Dayton

HAMVENTION

SATURDAY, APRIL 15, 1967

Wampler's Arena Center

DAYTON, OHIO



Robert E. Wilcox K8EJI
General Chairman



David Marquette W8DHJ
Ass't. General Chairman

It gave me a great deal of pleasure to participate in the ground breaking ceremony on the 22nd of March for the new building shown on the program cover. This will provide the Dayton Amateur Radio Association with its first permanent home during my association with the Club. The building, an addition to the Museum of National History located at 2629 Ridge Avenue, will be shared by the DARA and the Miami Valley Astronomical Society. Space will be provided for the club station W8BI, an observatory and telescope making facilities. W8BI is the call originally issued to George Bourne, one of the early organizers of DARA. The new building project, made possible by equal gifts from the Rike Foundation and the Kettering Fund is scheduled for completion in November, 1967.

The DARA club booth has been provided as an information center for Hamvention activities. If you are not a member of DARA, why not take the advantage of the special offer, since a \$5.00 yearly membership purchased at the Hamvention does not expire until September, 1968.

So with best wishes for an enjoyable Hamvention and a safe journey home, we will look forward to seeing you next year.

73,

Robert E. Wilcox

Robert E. Wilcox K8EJI
General Chairman

Hamvention Program

Saturday, April 15, 1967

0700-1700 — REGISTRATION

0730-1800 — EXHIBITS OPEN AND PRIZES ON DISPLAY

0900-1200 — VHF FORUM Room #2

Moderator, Ed Clegg W2LOY, Clegg Associates

"Slo Scan TV"— Don Miller W9NTP, NAFI

"Tips on Transistors"— Ed Tilton W1HDQ, ARRL

0900-1200 — RTTY FORUM Room #1

Moderator, F. "Dusty" Dunn W8CQ, Editor of RTTY Journal

"Advanced Teletypewriter Equipment"— Ron P. Larsson K9VUT, Teletype Corporation.

0900-1200 — DX FORUM Room #3

Moderator, Roy Hearsum W8LUZ, National Cash Register

"The DXpedition"— Don Miller W9WNV, Tony Rogozinski VQ9AR, Herb Kline K1IMP.

1000-1100 — FIRE BIRD AMATEUR RADIO CLUB

(Southeast Corner of Banquet Hall)

1140-1200 — HIDDEN TRANSMITTER HUNT DARA Booth

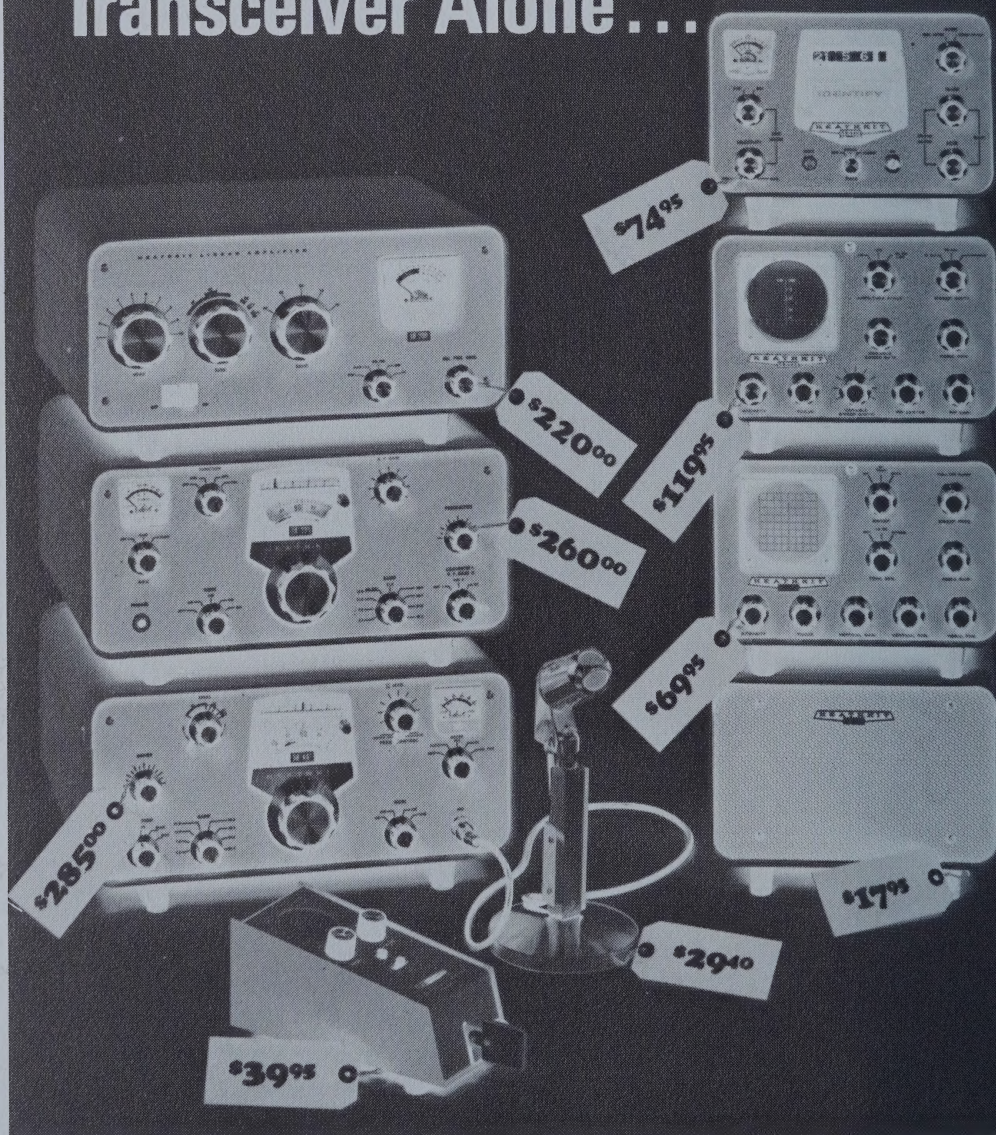
Carl Yeager W8DWT

Rudy Plak W8ZOF

Bus Transportation

Free bus from Sheraton-Dayton Hotel, Holiday Aire Motel, Howard Johnson's Lodge, Dayton Motor Hotel, Imperial House Motel and Holiday Inn Motel to Wampler's and Salem Mall available Friday from 1800 to 2200 and Saturday from 0730 until after the Banquet.

You Can Own This Entire HEATHKIT® Amateur Station For Less Than The Cost Of Our Competitor's Transceiver Alone...



Hamvention Program

1200-1300 — LUNCH

1300-1430 — ARRL FORUM Rooms 1 & 2

Moderator, Ken Mills W8RLY, President, Dayton Amateur Radio Association.

John Huntoon W1LVQ, Editor QST, General Manager ARRL.

Ed Tilton W1HDQ, VHF Editor QST.

Dana Cartwright W8UPB, Director ARRL.

1440-1700 — ANTENNA FORUM Room #2

Moderator, Joe Semkow W8IIP

"How and Why a Quad Works"—"Doc" Self W8FYR, Kirk Electronics,
Clarence Moore W9LZX, International Radio and Electronics Corp.

"Modern Antenna Matching Network Design"— Joe F. Bagdal W8AVD,
R. L. Drake Company.

1440-1540 — SSB FORUM Room #3

Moderator, Dorthy Strauber K2HEA

Irv Strauber K2MGE, Hammarlund Manufacturing

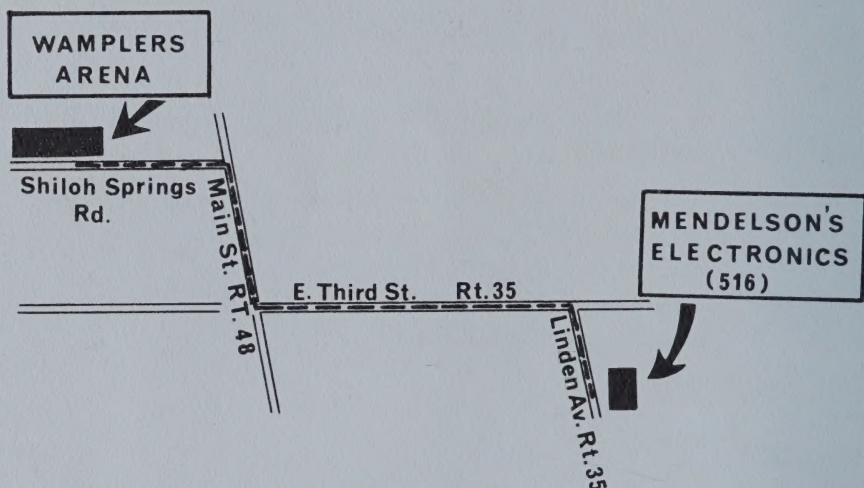
Coffee and Doughnuts Friday Evening

COURTESY

COSTON OF CINCINNATI

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OHIO'S LARGEST SELECTION GOVERNMENT SURPLUS



MENDELSON'S ELECTRONICS

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WELL STOCKED WITH MANY HAM "GOODIES"

FREE !!!

SOUVENIRS

PRIZES

THERE WILL BE HOURLY DRAWING FOR DOOR PRIZES

OPEN TILL 6 PM SATURDAY, HAMVENTION DAY

HOURS: MON. thru FRI. 8:30 to 5:00, SAT. 8:30 to 1:00.

Hamvention Program

1550-1700 — AMATEUR RADIO PUBLIC SERVICE FORUM . Room #3

Moderator, James Benson W8OUU

Henry Greeb W8CHT

James Weaver WA8COA

Richard Egbert W8ETU

1440-1700 — ARMY MARS Room #1

Moderator, Robert Kling K8GJL

Joe Ziglinski — Representing Chief Army Mars

Robert Sheridan W3REH, 1st Army Mars

Philip Brust W8QCU, Ohio Mars Director

1440-1700 — AIR FORCE MARS Red Barn

Moderator, Gil Brannan AFA8MUZ

1440-1700 — NAVY MARS Red Barn

Moderator, James Weaver WA8COA

1900-???? — HAMVENTION BANQUET

Master of Ceremonies, Dan Graves W8ZTL

Speaker, Col. Philip G. Cobb, USAF

Drawing for Grand Prizes.

When **YOU** Are In the Market for NEW EQUIPMENT
WE Have The Very **BEST**

Collins — Drake — National — Swan — Hallicrafters — Ameco
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If it is USED EQUIPMENT you want — WE HAVE THAT TOO !

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TOWERS? Yes, WE HAVE THEM !

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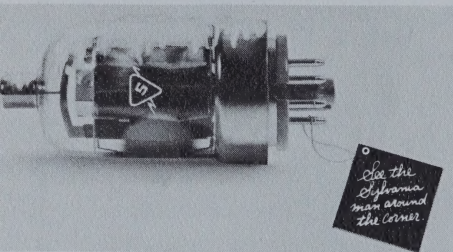
Service
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Frank

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OWNER
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Our 6146B has a cooling system inside.



And because it does, it has a higher dissipation safety factor and stays in power longer than conventional amplifier tubes.

The heart of the system is Sylvania's cool-running Hi-Con plate. It's iron that's copper-plated and then nickel-plated.

This combination keeps the tube cool, prevents hot spots, assures greater uniformity in heat reduction and efficient heat radiation.

The Sylvania 6146B also has increased heat transfer at a lower operating temperature because a heavy oxide insulating coating isolates the heater from the cathode. Rated power output is maintained even at reduced heater voltage.

The cathode is cold-rolled from a blend of powdered metals to eliminate peeling and flaking of the emissive coating. Emissive materials are progressively reactivated and this reduces "gm slump."

Get the 6146B and other electronic components fast, in any quantity, from your local Sylvania distributor.

Sylvania Electronic Tube Division, Electronic Components Group, Seneca Falls, New York 13148.

SYLVANIA
A DIVISION OF
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Hamvention Award Winners

- 1955 — William C. Jenny, W8FYW
Columbus, Ohio
- Benjamin S. Zeig, W9EHW
Evansville, Indiana
- 1956 — Edmund C. Ryan, W8LRR
Mansfield, Ohio
- 1957 — Ralph Crammer, W8VHO
Columbus, Ohio
- 1958 — Rev. C. Lynn White, K4CC
Harlan, Kentucky
- 1959 — Harlow Lucas, W8QQ
Columbus, Ohio
- 1960 — Paul Wolfe, W8IVE
Cincinnati, Ohio
- 1961 — Ed Bonnet, W8OVG
Dayton, Ohio
- 1962 — Dana Cartwright, W8UPB
Cincinnati, Ohio
- 1963 — Chester Funk, K8EUF
Van Wert, Ohio
- 1964 — H. E. Ruble, W8PTF
Dayton, Ohio
- 1965 — Carl B. Snyder, W8ARW
Greenville, Ohio
- 1966 — Robert K. Caskey, W9DNQ
Indianapolis, Indiana

Hamvention Ladies Program

"The 1967 DXpendition for Fun"

All XYLs and Y1s are heartily invited to join in the festivities.

- 8:00 A.M. — Registration Wampler's Arena Center
9:00 A.M. — "Kaffee Klatsch" Wampler's Arena Center
11:00 A.M. — Tour of Exhibits and Prizes
11:00 A.M. — Bus tour to Imperial House North
11:30 A.M. — "73 Luncheon," Germany Room . . . Imperial House North

There will be —

- new friends to meet
- old friends to greet
- surprizes for those who come from far away or close at home
- prizes chosen from shop and store plus fellowship and fun galore!

- 1:30 P.M. — Bus to the exciting Salem Mall
2:00 P.M. — See "Hawaii," the beautiful movie at the new Salem Theater (\$1.75).

or . . .

Browse through the many exciting shops, stores and surroundings of the enclosed Salem Mall.

- 5:00 P.M. — Bus (at Salem Theater) to motels, hotels and Arena Center
7:00 P.M. — Grand Banquet Wampler's Arena Center

COMMITTEE

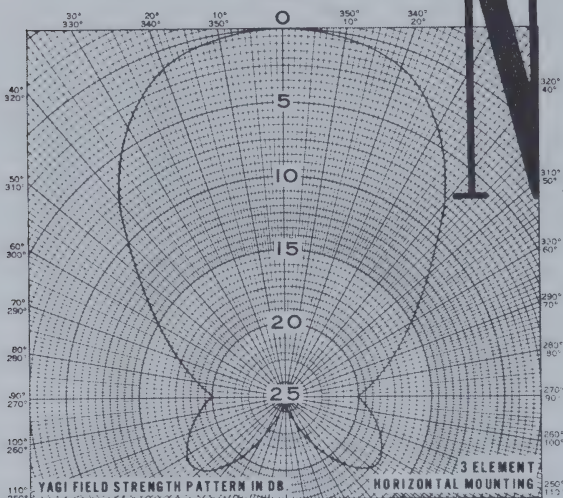
Mickey Hearsum, *Chairman*
Mary Smith, *Prizes*
Susie Suarez, *Prizes*

Jerry Corbett
Irene Hartman
Evelyn Marquette
Betty Montgomery
Jean Rineer

Polly Ruble
Virginia Shearer
Betty Walters
Mary Wilcox
Esther Zimmerman

Mosley TRAP
MASTER

NEW



Beam / WITH
Advanced
Matching System*
FOR
Added Gain

*(Pat. Pend.)

The Classic 33

You've been hearing about it — maybe you've worked Carl Mosley WØFQY — 'The Old Man Himself' using it. Now here it is . . . A Revolutionary New 3-element beam featuring an advanced Mosley-engineered matching system called 'Broad Band Capacitive Matching' with coax fed balanced element for more efficient beam performance and extra gain over comparative 3-element beams. A New Tri-Band beam rated for 1 KW AM/CW & 2 KW P.E.P. input to the final amplifier SSB on 10, 15, & 20 meters; with a full 8 db. gain on all three bands over reference dipole (10.1 db. compared to isotropic source); a maximum front-to-back
. . . The CLASSIC 33 . . . This new rugged beam in the Mosley Trap-Master tradition of quality beams brings you all the exclusive features of high priced beams — added gain, improved boom to element and mast clamping; wider element spacing. Priced well within your budget. What more could you possibly want in a 3-element Tri-Band beam?

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Mosley Electronics, Inc. 4610 N. LINDBERGH BLVD.,
BRIDGETON MO. 63042



The Classic Feed System

By W. E. "BARNEY" ST. VRAIN, WØPXE

DESIGNING ENGINEER - CLASSIC 33 PROJECT
MOSLEY ELECTRONICS, INCORPORATED

4610 N. Lindbergh Blvd., Bridgeton, Mo. 63042.

Code 107.

SINCE the introduction of multi-frequency beams several years ago, the method of feeding such antennas has been a subject of much disagreement. When these antennas were introduced a few years ago, Mosley Electronics ran a series of advertisements in the technical magazines explaining the method used on our Trap-Master and Power-Master series. Since that time we have tried a wide variety of feed systems endeavoring to improve on the original system.

Testing Other Feed Systems

In testing, we found a three band gamma system ineffective without isolation networks which resulted in the feed system costing about equal to the antenna cost; with a system using hairpins, the cost proved low but did not provide a better match than the original Mosley matching system. It became quite clear to us, the Mosley system was hard to beat, for we had found only one slight disadvantage, the elements needed to be stagger tuned to raise the feed point resistance from about 30 to 50 ohms. This slight detuning, which proved advantageous in increasing the bandwidth, brought about, in turn, a slight gain loss of about 0.5 to 1.0 db. at resonance.

The Classic-33 System

In order to give hams a new choice in beam matching systems and an antenna featuring maximum gain with increased bandwidth, we devised the matching method used on our New Classic 33 antenna, a method which takes advantage of the principle that antenna resistance at the center driving point increases as the antenna length increases. Figure No. 1 shows the radiator element of a three element beam at resonance having an impedance at the driving point (Z_A) of about $30 + j0$ ohms. If the element is made longer, Z_A can be raised to about $50 + j50$ ohms. (Figure No. 2) Since the reactance is inductive, it can be canceled with a series capacitor of 50 ohms reactance, leaving 50 ohms

feed point resistance. (Figure No. 3) Series capacitors used on the Classic 33 are made by inserting a suitable length of heavily insulated wire into each half of the element tube at the center. The wires are terminated in a plastic tube enclosure with a type "N" connector for connection of the coaxial cable. To isolate the outer coax conductor from ground, the coax line is coiled for a few turns near the antenna end. This is designed to prevent the very unlikely affect of "Feed Line Radiation".

Fig. 1.

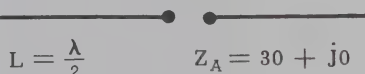


Fig. 2.

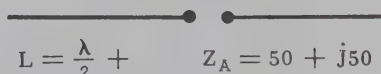
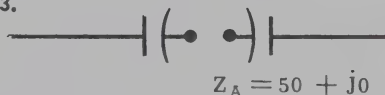


Fig. 3.



Converting Other Beams

This feed system could feasibly be used on our other Trap-Master beams, but little would be gained and the antenna would need to be completely rebuilt. The big difference between the new Trap-Master beam and the TA-33 is that the latter has conversion features, while the Classic 33 does not. The engineers at Mosley designed the Classic 33 to give the ham a little extra gain on all bands. It is our conviction that discriminating DX'ers will find this new tri bander specifically suited to their needs, but hams buying the well-known TA-33 will still enjoy a superior quality DX antenna with a gain very close to that of the Classic 33.

Hamvention Prizes



Prizes will be drawn hourly from 9 a.m. to 4 p.m., with the principle prizes to be drawn at the banquet. First, second, third and fourth prize winners need not be present to win. All other winners must be present to claim their prizes. Prizes not claimed by 1730 will be redrawn at the banquet. The television set will be awarded at the Ladies Luncheon.

The seven main prizes have been made available through the cooperation of the manufacturers and distributors as indicated.

1. DRAKE L-4 LINEAR AND POWER SUPPLY. Value \$695.00. Courtesy of R. L. Drake Company, Universal Service, and Dayton Hamvention.
2. SWAN 250 with AC power supply and speaker. Value \$438.95. Courtesy of Swan Electronics, Srepcu Electronics and Dayton Hamvention.
3. GALAXY V with AC power supply and speaker. Value \$420.00. Courtesy of Galaxy Electronics, Dayton Hamvention and Coston's.
4. HAMMARLUND HXL-1 LINEAR. Value \$395.00. Courtesy of Hammarlund Manufacturing Co.
5. SYLVANIA PORTABLE TELEVISION. Value \$175.00. Courtesy of Sylvania Electronic Products, Inc.
6. HEATH HW-22A, 40 meter single sideband transceiver kit. Value \$104.95. Courtesy of Heath Company.
7. LT-5, two band CW transmitter and PS-5 24 V DC regulated 5 watt power supply. Total value \$70.00. Courtesy of Omega Electronics Co.

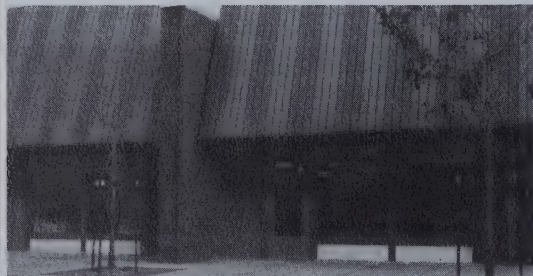
We Salute Our . . .

Hamvention Prize Donors

American Pamcor, Inc.	E. F. Johnson Co.
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AMI-TRON Associates	Herb Kreckman Co.
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Visit CUSTOM

NEW SALEM MALL STORE



CUSTOM is IN the new beautiful, INdescribable, INcomparable SALEM MALL shopping city in northwest Dayton at the intersection of Salem Ave. (Route 49) and Shiloh Springs Rd. Although we are IN you will actually find us on the OUT-side between Winter's Bank and Rike's. Should you find yourself IN the mall go OUT the exit between Rike's and Donenfeld, turn left and you'll find us easily. Our new store is being managed by Cliff Apple, K8BUG.

**SALEM MALL IS WEST OF WAMPLER'S
ON THE SAME ROAD (Shiloh Springs)
AT SALEM AVENUE
— JUST MINUTES AWAY! —**

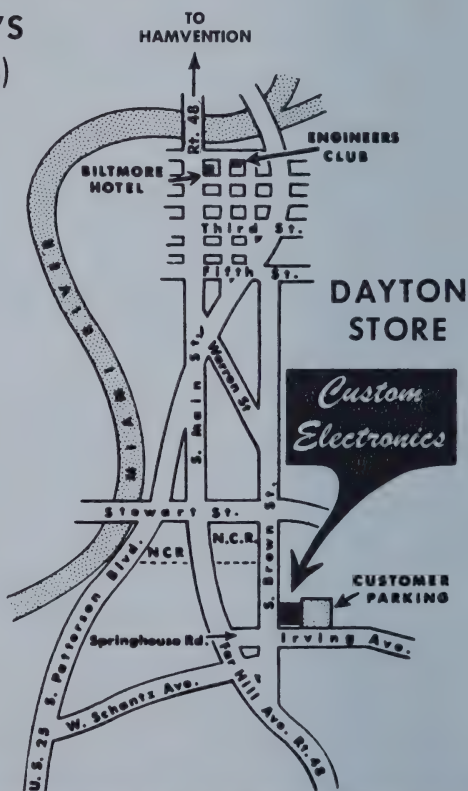


Our DAYTON STORE

(MAIN STORE)

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Our Main store in Dayton stocks all the leading lines of Amateur Radio equipment and parts. Such as: COLLINS, HALLICRAFTERS, HAMMARLUND, GONSET, HY-GAIN, AMECO, HI-PAR, B & W, CESCO, DRAKE, MOSLEY, CDR ROTATORS, ROHN TOWER, NEWTRONICS, AND MANY OTHERS !! We have it or can get it for you !! Stop in or write Bud Elder, K8WPF, our Manager for trade-in quotes and terms.



Custom Electronics

"THE NATION'S FIRST CHECKOUT ELECTRONIC PARTS"

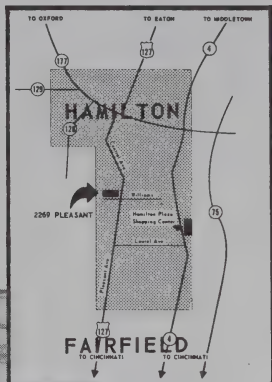
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Our HAMILTON STORE

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SERVING WPAFB, FAIRBORN, YELLOW SPRINGS, XENIA AND SPRINGFIELD AS WELL AS HUBER HEIGHTS! Open for two and one-half years now, its rapid sales growth is ample proof of your approval. Daily deliveries from our Dayton warehouse. Shop Fairborn and meet CLIFF APPLE, K8BUG, our Fairborn store manager.

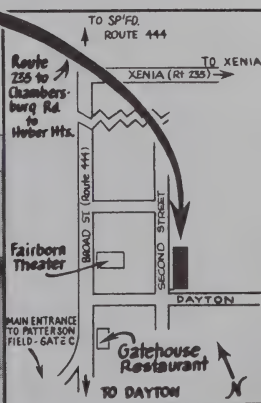


Our FAIRBORN STORE

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SERVING HAMILTON, FAIRFIELD, MIDDLETOWN AND OXFORD AS WELL AS THE NORTHERN CINCINNATI AREA! Well stocked with the most popular merchandise, with daily deliveries from our Dayton warehouse. Stop in soon and say hello to CLEM WOLFORD, W8ENH, our Hamilton Store manager.



STORE HOURS

Mon. thru Fri. 11 AM to 9 PM

Saturdays 9 AM to 5 PM

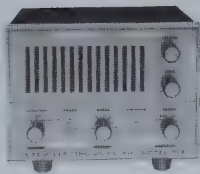
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FOR Amateurs

EICO Model 717 ELECTRONIC KEYS



NEW!

Kit \$49.95

Wired \$69.95

Fully automatic Electronic Keyer. For C.W. speed of 3 to 65 W.P.M. — adjustable tone, 3 x 5 speaker — 5 tubes, 2 silicon rectifiers, 5-1/2" x 8" x 8-1/4", 9 lbs.



NEW!

**COLOR
B & W**

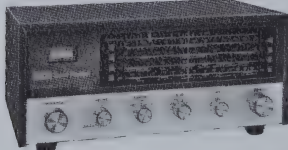
Kit \$109.95

Wired \$159.95

EICO 435 WIDEBAND DC 3" SCOPE

Permanently accurate Zener diode calibration
18 mv rms/cm sensitivity
DC to 4.5 mc flat response
Vertical and horizontal TV sweeps
Flat face, mu-metal shielded CRT

NEW! EICO-711 SPACE RANGER 4-BAND SWL RECEIVER



Kit \$49.95; Wired \$69.95

4-Bands, 550 KC through 30 MC — illuminated slide rule dial — built-in speaker — headphone jack — bandspread tuning — B.F.O. for C.W. and S.S.B.



**Grid Dip
Meter
#710**

Kit \$29.95

Wired \$49.95

Includes complete set of coils for full band coverage. 400 kc to 250 mc. 500 ua meter.



**peak-to-peak
VTVM #232**

Kit \$29.95

Wired \$49.95

AC/DC
Uni-Probe

For Color and Mono. TV Servicing
Calibration without removing from cabinet.

NEW!



EICO 753 TRI-BAND SSB/AM/CW TRANSCEIVER

Kit \$189.95

WITH SILICON SOLID
STATE VFO
Wired \$299.95

The finest sideband rig on the market, with unique plus features and great savings in kit form. A complete tri-band transceiver, offering SSB/AM/CW operation with conservatively rated 200 watts PEP on all modes (rated for maximum efficiency rather than maximum possible input power). Both phone and CW segments are covered completely on the 80, 40, and 20 meter bands.

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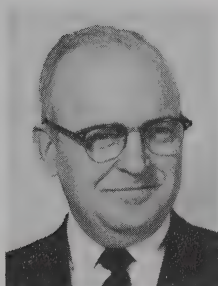


DIVISION, PIONEER-STANDARD
ELECTRONICS INCORPORATED

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TWX NO. 513-944-0430

Hamvention Banquet



Dan Graves, W8ZTL



Phillip G. Cobb, Col., U.S.A.F.

Master of Ceremonies for the 1967 Dayton Hamvention Banquet will be Dan Graves, W8ZTL. Dan is an Electrical Engineer and Program Manager at Wright-Patterson Air Force Base and a member of the DARA.

Col. Phillip G. Cobb received a Bachelor of Science degree from the University of Mississippi and a Master of Science degree in Physics and Electronics from Purdue University. He is a graduate of the first class of Air Force Navigators during World War II, and was later instrumental in establishing a system of Navigation training. In addition to important assignments at the Pentagon, Air University and Joint Chiefs of Staff, Col. Cobb possesses the Master Navigator's Badge and the Guided Missile Badge. He is presently Director, Avionics Subsystems Engineering Directorate, Subsystems Engineering Group, Wright-Patterson AFB, Ohio.

Banquet Menu

TOMATO JUICE

CHOICE ROUND OF BEEF

BAKED POTATO WITH SOUR CREAM

FRENCH CUT GREEN BEANS WITH ALMONDS

TOSSED SALAD WITH SELECTION OF DRESSING

ROLLS AND BUTTER • COFFEE, TEA, OR MILK

APPLE AND CHERRY PIE

WHEN YOU PURCHASE SUPPLIES OR EQUIPMENT PLEASE REMEMBER OUR ADVERTISERS, EXHIBITORS, AND PRIZE DONORS.

COMING ATTRACTIONS . . .

AREA HAMFESTS

WEST VIRGINIA

JULY 1-2

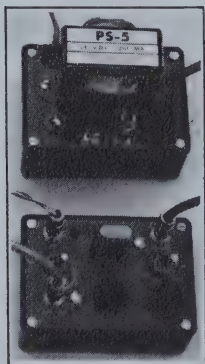
JACKSON'S MILL, WEST VIRGINIA

* * *

CINCINNATI

SEPTEMBER

STRICKLER'S GROVE



LT-5

\$35.00 Wired

\$24.00 Kit

5 Watt 40-80 Meter Transmitter

PS-5

\$34.00 Wired

\$22.00 Kit

Regulated AC Supply for the LT-5

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Hamvention Exhibitors

The following radio equipment manufacturers and parts distributors have their latest products on display during the 1967 Dayton Hamvention:

Amateur Electronic Supply, Milwaukee, Wisconsin
Collins Radio, Cedar Rapids, Iowa
Coston Electronics, Cincinnati, Ohio
Custom Electronics, Dayton, Ohio
Davco Electronics, Inc., Tallahassee, Florida
R. L. Drake Company, Miamisburg, Ohio
Evansville Amateur Radio Supply, Evansville, Indiana
Fallert's Engraving, Hamilton, Ohio
Galaxy Electronics, Council Bluffs, Iowa
Hallicrafters, Chicago, Illinois
Hammarlund Manufacturing Co., Mars Hill, North Carolina
Heath Company, Benton Harbor, Michigan
HyGain Electronics Corporation, Lincoln, Nebraska
Kirk Electronics, Dayton, Ohio
K9TVA Enterprises, Chicago, Illinois
Ed Morry Wholesale Radio, DeWitt, Arkansas
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Pioneer Standard Electronics, Cleveland, Ohio
Polygon Plastic Company, Walkerton, Indiana
Quarter Century Wireless Association, Dayton, Ohio
Raytrack Company, Columbus, Ohio
Srepco Electronics, Dayton, Ohio
Spaulding Products Co., Frankfort, Indiana
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HAMMARLUND AMATEUR TRANSMITTERS



HXL-1
LINEAR AMPLIFIER



HX50A
200 WATTS P.E.P. SSB/CW/AM



HAMMARLUND AMATEUR RECEIVERS



HQ110A/VHF



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160-2 METERS—EACH BEST IN ITS PRICE CLASS!
EVERY OPERATING AID BUILT-IN—NOTHING TO ADD!

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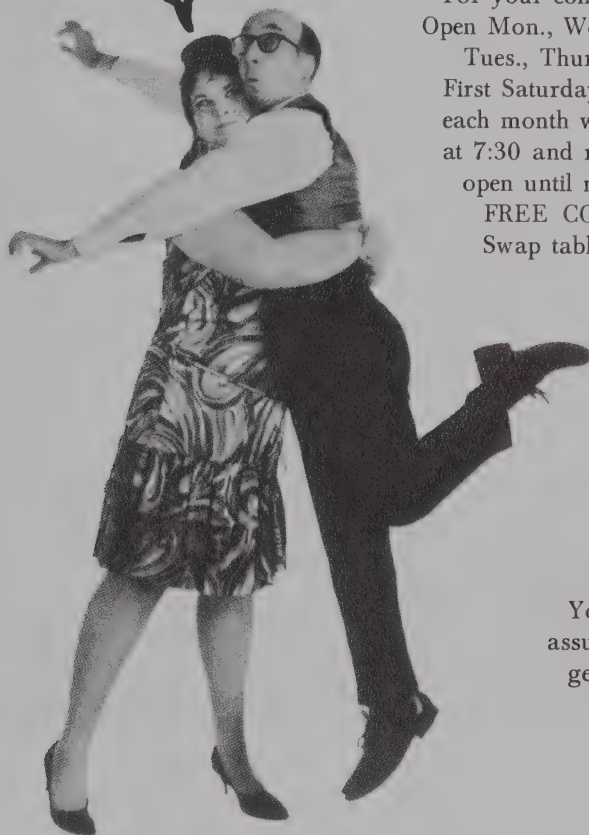
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AND I CAN STILL GET THE THINGS THAT I NEED FOR THE
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Whatever your ham needs may be — New or Used — Stop in soon
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joyed the free coffee & doughnuts they offered Fri. evening and that you
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26 lbs. of pure "hurricane"
—maximum legal input, in
a box no bigger than an
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Receiver Incremental Tuning... Amplified Automatic
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5-BAND TRANSCEIVER WITH M.L.P.
(Maximum Legal Power)



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A Subsidiary of Northrop Corporation
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Specifications in brief

... **Special Features:** Patented Receiver Offset Control (RIT) permits ± 2 kc adjustment of receiver frequency, independent of transmitter, for round-table, net or CW operation. Hallicrafters exclusive Amplified Automatic Level Control. **Frequency Coverage:** Full coverage provided for 80, 40, 20, 15 and 10 meters. Upper, lower sideband and CW operation. All crystals provided for 28.0 to 30.0 mcs. **General:** Dial cal. 1 kc. Linear gear drive with less than 1 kc readout. Adjustable IF noise blanker. Provision for plug-in external VFO/DX adapter. Built-in VOX plus break-in CW and PTT. Built-in CW sidetone. Hi-Low power switch for SSB.* 2.1 kc 6-pole crystal lattice filter. S-meter-RFO-AALC and final screen metering.* Two-speed blower. 100 kc crystal cal. VFO covers 500 kc. **Transmitter Section:** Two 8122 output tubes. Variable PI network. Power input, 2000 watts P.E.P. SSB; 1000 watts CW. Carrier and unwanted SB suppression, 50db; distortion products, 30 db. **Audio:** 500-2500 cps @ 6 db. **Receiver Section:** Sensitivity less than 1 uv for 20 db S/N. Audio output, 2W.; overall gain, 1 uv for $\frac{1}{2}$ W. output. **SR-2000 transceiver—\$995** amateur net, **P-2500AC Power Supply—\$395** amateur net.

*Meters for final plate current and voltage built into P-2000AC power supply. Also Hi-Low power switch, and loudspeaker.

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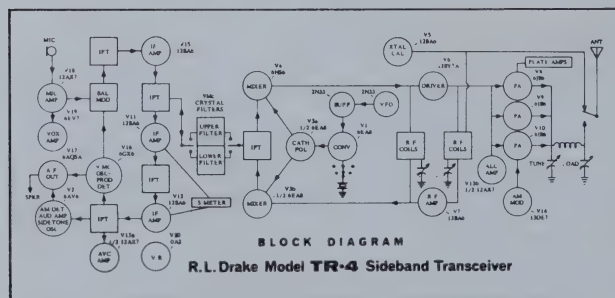
The improved full coverage SIDEBAND TRANSCEIVER



TR-4 **\$599⁹⁵** Amateur Net

Features of TR-4 and TR-3

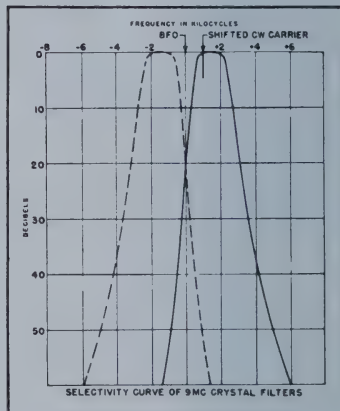
- Full Frequency Coverage on all amateur bands 10 through 80 meters. No additional crystals required.
- Upper and Lower Sideband on all bands.
- VOX or PTT built-in.
- Output Impedance Adjustable with pi-network.
- Separate Receiver S-Meter and Transmitter Plate Ammeter.
- 300 Watts PEP input on SSB.
- Controlled-Carrier Screen Modulator for AM built-in.
- Shifted-Carrier CW 260 watts input.
- Two Special 9 Mc Crystal Filters for sideband selection.
- Separate RF and AF Gain Controls.
- 2.1 Kc Passband.
- 100 Kc Crystal Calibrator built-in.



DRAKE TR-4

All features of Drake TR-3
PLUS ...

- ★ Solid State VFO with linear permeability tuning for maximum stability
- ★ Automatic Transmit/Receive Switching on CW (semi break-in)
- ★ CW Sidetone Oscillator built-in
- ★ VOX or PTT on AM
- ★ Connections for External Receiver
- ★ Diode Detector on AM
- ★ Relative RF Output Indication



ACCESSORIES

for either TR-4 or TR-3

REMOTE VFO

Model RV-3 . . . \$79.95

MATCHING SPEAKER

Model MS-4 . . . \$19.95

MOBILE MOUNTING KIT

Model MMK-3 . . . \$6.95

POWER SUPPLIES

AC Power Supply Model AC-3 \$79.95

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For more information, see your distributor or write:

R. L. DRAKE COMPANY MIAMISBURG, OHIO, 45342

Super-combination for transceiving...

The new
Receiver-
controlled
Exciter...

DRAKE
T-4
RECITER

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DRAKE
R-4A
RECEIVER

The
ultimate
in
transceiving



Model T-4 **\$299⁹⁵** Amateur Net

T-4 Features

Covers all Ham Bands 160 thru 10 meters.
Covers MARS and Other Frequencies between ham bands.
Upper and Lower Sideband on all frequencies.
Automatic Transmit Receive Switching on CW (semi break-in).
Controlled Carrier Modulation for AM is completely compatible with SSB linear amplifiers.
VOX or PTT on SSB and AM built-in.
Adjustable Pi-Network Output.
Two Crystal Lattice Filters for sideband selection, 2.4 Kc bandwidth.
Transmitting AGC prevents flat topping.
Shaped Grid Block Keying with side tone output.
200 Watts PEP Input on SSB—180 watts input CW.
Meter indicates plate current and relative output.
Compact size; rugged construction.

Complete Transmitter (LESS POWER SUPPLY)



Model T-4X, Amateur Net:

DRAKE
T-4X

All T-4 features plus

- Solid State VFO and
- XTAL Oscillators...

Give:

Separate control of receive and transmit frequencies
Transceiver operation with frequency control by either Rcvr or Xmtr
Coverage on 80, 40, 20, 15 meters completely and 28.5 to 29.0 Mc of 10 meters with crystals furnished
Four extra 500 Kc ranges can be covered with accessory crystals (160 meters, other 10 meter ranges, MARS, etc.)

\$399⁹⁵

AC-3 Power Supply for
T-4 and T-4X: \$99.95

R. L. DRAKE COMPANY MIAMISBURG, OHIO 45342

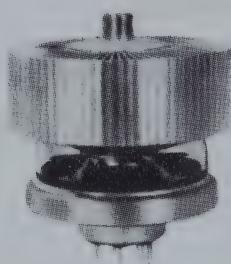
Penta Beam Pentodes for Amateur Radio



PL-175A



PL-177A



PL-8295/172



PL-8432

RATINGS

Type	Filament		Max. Plate Dissipation (Watts)	Useful Output* Class AB ₁ Linear Amplifier				
	Voltage (Volts)	Current (Amps)		Plate voltage in volts				
				1000	1500	2000	2500	3000
PL-175A	5.0	14.5	400	—	—	445W	570W	680W
PL-177A	6.0	3.3	75	96W	140W	210W	—	—
PL-8295/172	6.0	7.8	1000	—	—	1020W	1280W	1540W
PL-8432	6.0	7.8	1000	—	—	1020W	1280W	1540W

*Actual power output delivered to load from typical amplifier.

These Penta beam pentodes are finding wide use for linear amplifier service. Reason: You get higher power output at lower plate voltages with minimum distortion. For 50-watt to 200-watt peak output service, choose the PL-177A. With the PL-175A, a 400-watt tube, you can replace the 4-400A, directly, provide substantially higher output without circuit or voltage changes. Both of these plus the PL-8295/172 and PL-8432 feature Penta's exclusive vane-type suppressor grid design for extra efficiency and linearity. Ceramic construction of the PL-8432 means greater shock and vibration resistance, plus high allowable operating temperature capability. For details, write The Penta Laboratories, Inc. 312 North Nopal St., Santa Barbara, California 93102.



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Dayton, Ohio
222-5518

Holiday Aire Motel
U.S. Route 25, North on Expressway
North at Neff Road
Dayton, Ohio
274-1116

Howard Johnson's
Motor Lodge and Restaurant
2221 Wagner Ford Road
(at the traffic circle)
Dayton, Ohio
278-4851

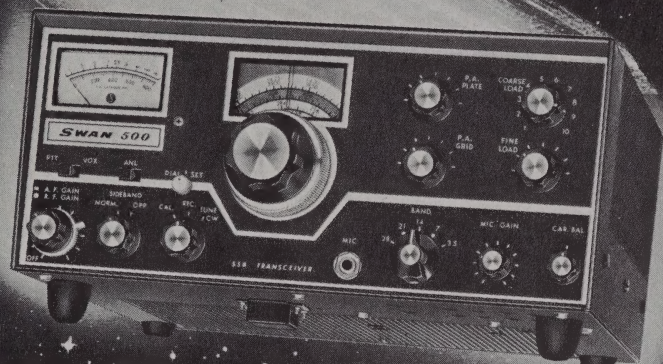
Sheraton-Dayton Hotel
210 N. Main Street
Dayton, Ohio
223-2161

NOTES...

THANK YOU !

**FOR COMING TO OUR DAYTON HAMVENTION
YOUR COMMENTS AND SUGGESTIONS WILL BE WELCOMED.
THE DAYTON AMATEUR RADIO ASSOCIATION, INC.**

**A STAR
IS BORN!**



SWAN 500

DELUXE ADDITION TO THE SWAN LINE 5 BANDS—480 WATTS HOME STATION—PORTABLE—MOBILE

It is with great pride that we announce the development and production of the newest addition to the Swan Line. The Swan 500 is a most fitting deluxe companion to the classic model 350. Improved circuit efficiency provides increased power ratings of 480 Watts P.E.P. on sideband; 360 Watts CW input and 125 Watts AM. At the top of the Swan Line, the 500 offers many extra features: Selectable upper and lower sideband, 100 kc crystal calibrator, automatic noise limiter, provision for installation of an internal speaker (the best solution for the mobile installation), and a factory installed accessory socket for the addition of the model 410 external VFO.

As a receiver, the new 500 will satisfy the most critical operator. Sensitivity is better than .5 uv and the precision tuning mechanism is easily the smoothest you will find on any piece of amateur gear. Improved production techniques result in even better VFO stability. A new product detector circuit provides you with superior audio quality, and a new AGC system responds more

smoothly to wide variations in signal strength.

The new 500 is equipped with the finest sideband filter used in any transceiver today. With a shape factor of 1.7, ultimate rejection better than 100 db, and a carefully selected bandwidth of 2.7 kc, this superior crystal filter combines good channel separation with the excellent audio quality for which Swan transceivers are so well known.

Frequency coverage of the five bands is complete: 3.5-4.0 mc, 7.0-7.5 mc, 13.85-14.35 mc, 21-21.5 mc, 28-29.7 mc. (In addition, the 500 covers Mars frequencies with the 405X accessory crystal oscillator.)

Along with higher power, improved styling and many deluxe features, the new 500 has the same high standards of performance, rugged reliability and craftsmanship that have become the trademark of the Swan Line. Backed up by a full year warranty and a service policy second to none, we feel that the Swan 500 will establish a new standard of value for the industry. Our new "Star" is now in production.

\$495 amateur
net.

ACCESSORIES:

MATCHING AC SUPPLY

With speaker and phone jack.

Model 117XC \$ 95

12 VOLT DC SUPPLY

For mobile or portable operation.

Model 14-117 \$130

MARS CRYSTAL OSCILLATOR

Five crystal-controlled channels

with vernier freq. control.

Model 405X (less crystals) \$ 45

FULL COVERAGE EXTERNAL VFO

Model 410 \$ 95

DUAL VFO ADAPTOR

Provides for separate control of transmit and receive frequencies.

Model 22 \$ 25

PLUG-IN VOX UNIT Model VX-1 \$ 35

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Swan speaks your language.
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